

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27186

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 21/00; B65B 31/00, 61/00, 55/04  
 US CL : 250/453.11, 454.11, 455.11, 492.1, 492.3; 53/410, 425, 426; 422/24  
 According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 250/453.11, 454.11, 455.11, 492.1, 492.3; 53/141, 117, 410, 425, 426; 422/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,779,318 B2 (WANG) 24 August 2004. (24.08.2004), columns 1-2, Fig. 1 and 2.	1-33
A	US 5,396,074 A (PECK et al.) 07 March 1995 (07.03.1995), columns 1-3, Fig. 1 and 2.	1-33
A	US 5,685,130 A (HORSMAN) 11 November 1997 (11.11.1997), column 2 and Fig. 16.	1-33
A	US 5,477,660 A (SMITH) 26 December 1995 (26.12.1995), figure 11.	1-33

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

22 March 2005 (22.03.2005)

Date of mailing of the international search report

19 JUL 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
 Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Faxsimile No. (703) 305-3230

Authorized officer

John R. Lee

DEBORAH A. THOMAS  
 PARALEGAL SPECIALIST

Telephone No. 703-308-0956

GROUP 1300

JLT